

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>MAT-8638US</b>
INTERNATIONAL APPLICATION NO. <b>PCT/JP2003/007600</b>		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>To Be Assigned 10/517188</b>
INTERNATIONAL FILING DATE <b>16.06.03 (16 June 2003)</b>		PRIORITY DATE CLAIMED <b>19.06.02 (19 June 2002)</b>
TITLE OF INVENTION <b>FLEXIBLE PTC HEATING ELEMENT AND METHOD OF MANUFACTURING THE HEATING ELEMENT</b>		
APPLICANT(S) FOR DO/EO/US <b>Takahito ISHII, Keiko YASUI, Selshi TERAOKA, Kazuyuki KOHARA and Mitsuru YONEYAMA</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li><input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li><input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li><input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li><input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li><input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li><input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li><input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> is attached hereto.</li> <li><input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li><input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li><input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li><input type="checkbox"/> have been communicated by the International Bureau.</li> <li><input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li><input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li><input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li><input checked="" type="checkbox"/> An <input checked="" type="checkbox"/> executed/<input type="checkbox"/> unexecuted oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li><input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>		
<b>Items 11 to 20 below concern documents(s) or information included:</b>		
<ol style="list-style-type: none"> <li><input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.</li> <li><input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li><input checked="" type="checkbox"/> A preliminary amendment.</li> <li><input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li><input type="checkbox"/> A substitute specification.</li> <li><input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li><input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li><input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li><input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li><input checked="" type="checkbox"/> Other items or information: <b>CERTIFICATE OF EXPRESS MAIL and CREDIT CARD PAYMENT FORM.</b></li> </ol>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>To Be Assigned</b> <span style="font-size: 1.5em; font-weight: bold;">10/517188</span>	INTERNATIONAL APPLICATION NO. <b>PCT/JP2003/007600</b>	ATTORNEY DOCKET NO. <b>MAT-8638US</b>
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21. <input type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1) - (5)):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO <span style="float: right;"><b>\$1110.00</b></span>  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO <span style="float: right;"><b>\$950.00</b></span>  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO <span style="float: right;"><b>\$790.00</b></span>  International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33 (1)-(4) <span style="float: right;"><b>\$750.00</b></span>  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4) <span style="float: right;"><b>\$100.00</b></span>  <div style="text-align: center;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; padding: 2px;">CALCULATIONS PTO USE ONLY</th> </tr> <tr><td style="height: 100px;"></td><td></td></tr> <tr> <td style="text-align: right; padding: 2px;">\$ 950.00</td> <td></td> </tr> <tr> <td style="text-align: right; padding: 2px;">\$</td> <td></td> </tr> </table>	CALCULATIONS PTO USE ONLY				\$ 950.00		\$	
CALCULATIONS PTO USE ONLY									
\$ 950.00									
\$									

Surcharge of **\$130.00** for furnishing the oath or declaration later than 30 months  
from the earliest claimed priority date (37 CFR 1.492(e)).

CLAIMS	NUMBER FILED	EXTRA NUMBER	RATE		
Total claims	101 - 20 =	<b>81</b>	X \$18.00	\$1,458.00	
Independent claims	5 - 3 =	<b>2</b>	X \$88.00	\$ 176.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$300.00	\$ 300.00	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$2,884.00	

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above  
are reduced by 1/2.

**SUBTOTAL =** \$2,884.00

Processing fee of **\$130.00** for furnishing the English translation later than 30 months  
from the earliest claimed priority date (37 CFR 1.492(f)).

**TOTAL NATIONAL FEE =** \$2,884.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be  
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **\$40.00** per  
property +

**TOTAL FEES CHARGED =** \$2,924.00

	<b>Amount to be refunded:</b>
	<b>Charged:</b>

a. ☐ A check in the amount of \$\_\_\_\_\_ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$\_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any  
overpayment to Deposit Account No. **18-0350**. A duplicate copy of this sheet is enclosed.

d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card  
information should not be included on this form.** Provide credit card information and authorization on PTO-  
2038.

**NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive  
(37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.**

<input checked="" type="checkbox"/> Customer Number	<b>23122</b> (Insert Customer No. here)	or <input checked="" type="checkbox"/> Correspondence address below
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**Send All Correspondence to:**

**RatnerPrestia**  
**P.O. Box 980**  
**Valley Forge, PA 19482**

\_\_\_\_\_  
 Signature  
**Lawrence E. Ashery**  
 Name  
**34,515**  
 Registration Number  
**December 7, 2004**  
 Date

10/517188

<b>CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.101)</b>		Rec'd PCT/PTO 07 DEC 2004
Applicant: Takahito ISHII, et al.		Docket No. MAT-8638US

<b>Application No.</b> To Be Assigned	<b>Filing Date</b> Herewith	<b>Examiner</b> To Be Assigned	<b>Group Art Unit</b> To Be Assigned
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**Invention:**

**FLEXIBLE PTC HEATING ELEMENT AND METHOD OF  
MANUFACTURING THE HEATING ELEMENT**

I hereby certify that the following correspondence:

**PCT National Stage Application with PTO-1390 and its enclosures**

*(Identify type of correspondence)*

Is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:

**Mail Stop PCT**, Commissioner for Patents, Alexandria, VA 22313-1450 on: **December 7, 2004**

**KATHLEEN LIBBY**

*(Typed or Printed Name of Person Mailing Correspondence)*

*(Signature of Person Mailing Correspondence)*

**EV 447 718 753 US**

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